VOLUME 55 1987

INTERNATIONAL JOURNAL OF LEPROSY

And Other Mycobacterial Diseases

Official Organ of the
INTERNATIONAL LEPROSY ASSOCIATION
(Société Internationale de la Lèpre)
(Asociación Internacional contra la Lepra)

Contents

INTERNATIONAL JOURNAL OF LEPROSY
and Other Mycobacterial Diseases

Official Organ of the International Leprosy Association

President: Prof. M. F. Lechat, Ecole de Santé Publique-U.C.L., Epid. 30.34, Clos Chapelle aux Champs 30, 1200 Bruxelles, Belgium

Secretary: Dr. R. H. Thangaraj, Salur, Vizianagaram District, Andhra Pradesh 532591, India

Treasurer: Dr. W. F. Ross, One Broadway, Elmwood Park, New Jersey 07407, U.S.A.

EDITORIAL OFFICE

Gillis W. Long Hansen's Disease Center
Carville, Louisiana 70721, U.S.A.

Editor: ROBERT C. HASTINGS, Carville, Louisiana

Assistant Editor: DEE D. GOODMAN, Carville, Louisiana

BUSINESS AND CIRCULATION OFFICE

Executive Officer: W. FELTON ROSS
One Broadway
Elmwood Park, New Jersey 07407, U.S.A.

BOARD OF DIRECTORS

Dr. Michel F. Lechat (President, ILA), Chairman
Dr. Patrick J. Brennan
Dr. Wayne M. Meyers
Dr. W. Felton Ross (Treasurer, ILA)
Dr. R. H. Thangaraj (Secretary, ILA)

CONTRIBUTING EDITORS

Argentina: Dr. J. E. Cardama (Buenos Aires)
Australia: Dr. J. C. Hargrave (Darwin)
Brazil: Dr. L. M. Bechelli (São Paulo)
France & Fr. Terr.: Dr. D. Wallach (Paris)
India (North): Dr. L. K. Bhutani (New Delhi)
India (South): Dr. M. Christian (Karigiri)
Israel: Dr. L. Levy (Jerusalem)
Japan: Dr. M. Abe (Tokyo)
Malaysia & SE Asia: Dr. J. H. S. Pettit (Kuala Lumpur)
Mexico: Dr. A. Saúl (Mexico, D.F.)
Netherlands: Dr. D. L. Leiker (Amsterdam)
People's Republic of China: Dr. Ye Gan-yun (Taizhou)
Philippines: Dr. R. M. Abalos (Cebu City)
Spain: Dr. J. Terencio de las Aguas (Fontilles)
U.K.: Dr. R. J. W. Rees (London)
U.K.: Dr. M. F. R. Waters (London)
U.S.A.: Dr. P. W. Brand (Seattle)
U.S.A.: Dr. Thomas H. Rea (Los Angeles)
U.S.S.R.: Dr. A. A. Juscenko (Astrakhan)
Venezuela: Dr. J. Convit (Caracas)
West Africa: Dr. M. Nebout (Bamako)

This JOURNAL is indexed in CURRENT CONTENTS/LIFE SCIENCES, BIOLOGICAL ABSTRACTS, and CHEMICAL ABSTRACTS, EXCERPTA MEDICA/SECTION 51 LEPROSY, TROPICAL DISEASES BULLETIN, and INDEX MEDICUS-MEDLINE DATA BASE. Microform available from University Microfilms International, Ann Arbor, Michigan 48106, U.S.A. or London WC1R 4EJ, U.K.

The INTERNATIONAL JOURNAL OF LEPROSY (ISSN 0148-916X) is published quarterly for $60.00 per year for members and $80.00 per year for subscribers by Allen Press, Inc., 1041 New Hampshire St., Lawrence, Kansas 66044, U.S.A. Second-class postage paid at Elmwood Park, New Jersey and additional mailing office. POSTMASTER: Send address changes to INTERNATIONAL JOURNAL OF LEPROSY, Business and Circulation Office, One Broadway, Elmwood Park, NJ 07407, U.S.A.

INTERNATIONAL JOURNAL OF LEPROSY
and Other Mycobacterial Diseases

CONTENTS
Volume 55, Number 1, March 1987

Original Articles — **Page**

Katoch, Kiran, Ramu, Gopal, Ramanathan, Usha, and Desikan, K. V. Comparison of Three Regimens Containing Rifampin for Treatment of Paucibacillary Leprosy Patients. 1

Schaad-Lanyi, Zuzana, Dieterle, Walter, Dubois, Jean-Pierre, Theobald, Walter, and Vischer, Wolfgang. Pharmacokinetics of Clofazimine in Healthy Volunteers. 9

Sebille, Alain, Cordoliana, Gérard, Raffalli, Marie-Joséphine, Nebout, Max, and Chevallard, Alexis. Dapsone-induced Neuropathy Compounds Hansen's Disease Nerve Damage: An Electrophysiological Study in Tuberculoid Patients. 16

Sirsat, Ashok M., Lalitha, V. S., and Pandya, S. S. Dapsone Neuropathy—Report of Three Cases and Pathologic Features of a Motor Nerve. 23

Gill, Harvindar Kaur, Mustafa, Abu Salim, and Godal, Tore. *In Vitro* Proliferation of Lymphocytes from Human Volunteers Vaccinated with Armadillo-derived, Killed *M. leprae*. 30

Rao, T. Dharma and Rao, P. Ramchander. Enhanced Cell-mediated Immune Responses in Erythema Nodosum Leprosum Reactions of Leprosy. 36

Sinha, Sudhir, Sreevatsa, Gupta, Sudhir K., and Sengupta, Utpal. Comparative Study of Immunizing and Delayed Hypersensitivity Eliciting Antigens of *Mycobacterium leprae, M. tuberculosis, M. vaccae,* and *M. bovis* (BCG). 42

Gillis, Thomas P. and Job, Charles K. Purification of the 65 kD Protein from *Mycobacterium gordonae* and Use in Skin Test Response to *Mycobacterium leprae*. 54

Richard, Lucie, Turcotte, Raymond, and Forget, Adrien. Suppressor T Cells for Delayed-type Hypersensitivity in Susceptible Mice Infected with *Mycobacterium lepraemurium*. 63

Guelpa-Lauras, Claire-Cécile, Perani, Evelyne G., Giroir, Anne-Marie, and Grosset, Jacques H. Activities of Pefloxacin and Ciprofloxacin Against *Mycobacterium leprae* in the Mouse. 70

Gelber, Robert H. Further Studies of the Killing of *M. leprae* by Aminoglycosides: Reduced Dosage and Frequency of Administration. 78

Luderschmidt, Christoph. Orientation Staining for the Demonstration of *Mycobacterium leprae* in Semithin Sections. 83

McDougall, A. Colin, Ponnighaus, Jorg M., and Fine, Paul E. M. Histopathological Examination of Skin Biopsies from an Epidemiological Study of Leprosy in Northern Malawi. 88

Ridley, Marian J., Waters, Michael F. R., and Ridley, Dennis S. Events Surrounding the Recognition of *Mycobacterium leprae* in Nerves. 99

Baskin, Gary B., Gormus, Bobby J., Martin, Louis N., Wolf, Robert H., Murphey-Corb, Michael, Walsh, Gerald P., Binford, Chapman H., Meyers, Wayne M., and Malaty, Raga. Experimental Leprosy in a Rhesus Monkey: Necropsy Findings. 109

Editorials

The Relation Between Allergy and Immunity in Leprosy. (Michael Maier) 116

The 1986 JOURNAL—a Continuing Perspective. (Robert C. Hastings) 140

Correspondence

Early Tractata on Leprosy. (Laszlo Kato) 157

Photoactivated 8-Methoxypsoralen in Repigmentation of Tuberculoid Leprosy. (Chakravarthi R. Srinivas, Rayadurga P. C. Naik, Devasthanam S. R. Krupashankar, and Satish K. Menon) 159

Simplified Surgical Technique for Flexible Clawed Hand Rehabilitation. (Alexis J. Chevallard) 160

Lipid Composition of Human Leprous Tissue. (Bhushan Kumar, S. Jamumdar, R. Dahiya, Surinder Kaur, and N. K. Ganguly) 162

News and Notes 165

Book Reviews 170

Current Literature 172

Special Grantors and Sustaining Members 190

Index to Volume 54 191

CONTENTS

Volume 55, Number 2, June 1987

Original Articles — **Page**

Locniskar, Mary, McEniry, David W., Mudd, David W., Rose, Patricia, Lucas, Donald C., Larrick, James, and McAdam, Keith P. W. J. Assessment of the Immune Deficit in Leprosy Patients and the Effect of Recombinant IL-2 *in Vitro*. 249

Ottenhoff, Tom H. M., Converse, Paul J., Bjune, Gunnar, and de Vries, René R. P. HLA Antigens and Neural Reversal Reactions in Ethiopian Borderline Tuberculoid Leprosy Patients. 261

Schuller-Levis, Georgia, Harris, Daniel, Cutler, Edward, Meeker, Harry C., Haubenstock, Harriet, and Levis, William R. Defective Monocyte Chemotaxis in Active Lepromatous Leprosy. 267

Naik, Sita, Kumar, Bhushan, Kaur, Surrinder, and Sehgal, Shoba. Cold Reactive Lymphocytotoxic Antibodies in Patients with Tuberculoid and Lepromatous Leprosy. 273

Rawlinson, William Douglas, Basten, Antony, and Hargrave, John C. Clinical Significance of Changes in Serum Proteins, Immunoglobulins, and Autoantibodies in Leprosy. 277

Amezcua, Maria Eugenia, Escobar-Gutiérrez, Alejandro, Mayén, Elvira, and Cázares, Jose Victor. Sensitivity and Specificity of the FLA-ABS Test for Leprosy in Mexican Populations. 286

Orme, Ian M. Immunization of Mice with *Mycobacterium leprae/Mycobacterium bovis* BCG Admixtures: Modulation of the Acquired Response to BCG. 293

Job, Charles K., Sanchez, Rita M., McCormick, Gregory T., and Hastings, Robert C. Ability of the Phenolic Glycolipid-I Antigen of *M. leprae* to Elicit a Positive Mitsuda Response in the Armadillo (*Dasypus novemcinctus*). 299

Hoffenbach, Agnès, Diloro, Léonardo, and Bach, Marie-Anne. Influence of Route of Inoculation on Anti-*Mycobacterium lepraemurium* Antibody Isotypes in Murine Leprosy. 305

Harshan, K. V., Prasad, H. K., Chopra, N. K., Mishra, R. S., Gogiya, P., and Nath, Indira. Comparison of Radiometric Macrophage Assay and Fluorescein Diacetate/Ethidium Bromide Staining for Evaluation of *M. leprae* Viability. 316

Shepard, Charles C., Van Landingham, Rosalind M., Walker, Laura L., and Good, Robert C. Activity of Selected Beta-Lactam Antibiotics Against *Mycobacterium leprae*. 322

Bharadwaj, V. P., Sakai, M., Ogawa, K., and Nishiura, M. Ultracytochemical Studies of Lysosomal Function in the Macrophages of Human Leprosy—I. 328

Gibbels, Ellen, Henke, Ursula, Klingmüller, Georg, and Haupt, Walter F. Myelinated and Unmyelinated Fibers in Sural Nerve Biopsy of a Case with Lepromatous Leprosy—a Quantitative Approach. 333

Fleury, Raul N., and Bacchi, Carlos E. S-100 Protein and Immunoperoxidase Technique as an Aid in the Histopathologic Diagnosis of Leprosy. 338

Editorial

Plague and Leprosy in the Middle Ages: A Paradoxical Cross-Immunity? (Stephen R. Ell) 345

Correspondence

Effect of Interleukin-1 (IL-1) and IL-2 on Lymphocytes from Patients with Leprosy. (Elsa M. Rada S., Walter Mosco, Nacarid Aranzazu and Jacinto Convit) 351

An Unusual Case of Untreated Lepromatous Leprosy with Rare Bacilli: An Immunologic Follow-up. (Robert H. Gelber and Nahid Mohagheghpour) 353

Reversal Reaction—Management with Topical Corticosteroids. (Chakravarthi R. Srinivas, Ambarish Padhee, Satish K. Menon, Rayadurg P. C. Naik and Komattil Ramnarayan) 355

Diabetogenic Effect of Dapsone. (Aurora Santana Asensio, Omar Sergio Caticha-Alfonso, Bernardo Beiguelman and Luis Alberto Magna) 357

Effect of Preformed Immune Complexes on the Course of *Mycobacterium leprae* Infection in Normal Mice. (Surrinder Kaur, Chetana Vaishnavi, Bhushan Kumar, and Nirmal Kumar Ganguly) 358

***Mycobacterium leprae*, Probably a Microbe-dependent Microorganism.** (Laszlo Kato) 361

News and Notes 363

Book Review 369

Current Literature 370

Second U.S. Hansen's Disease Research Conference, Baton Rouge, Louisiana, U.S.A., 1986 397

WHO Guidelines for Skin Smears 421

Special Grantors and Sustaining Members 423

CONTENTS

Volume 55, Number 3, September 1987

Original Articles — Page

Radhakrishna, S. and Nair, N. G. K. Association Between Regularity in Dapsone (DDS) Treatment and Development of Deformity. 425

Andrade, Vera L. G., Marques, Alfredo B., da Cunha, Lucia H. V., and Avelleira, João R. Feasibility of Multidrug Therapy (MDT) in Hansen's Disease in an Urban Population—Curupaiti State Hospital, Rio de Janeiro, Brazil. 435

Miller, Richard A., Shen, Jen-Yee, Rea, Thomas H., and Harnisch, James P. Treatment of Chronic Erythema Nodosum Leprosum with Cyclosporine A Produces Clinical and Immunohistologic Remission. 441

Azulay, Rubem David. Primary Visceral Virchowian (Lepromatous) Hanseniasis. 450

Ponnighaus, Jorg M., Fine, Paul E. M., and Bliss, Lyn. Certainty Levels in the Diagnosis of Leprosy. 454

Koumantaki, Ivoni G., Katsouyanni, Klea M., Kaklamani, Evangelia P., Malama, Irene M., Karalis, Dimitri Th., Papaïoannou, Dimitri J., and Trichopoulos, Dimitri V. An Investigation of Family Size and Birth Order as Risk Factors in Leprosy. 463

Lieber, Michael D. and Lieber, Esther B. Social and Demographic Aspects of a Leprosy Epidemic on a Polynesian Atoll: Implications of Pattern. 468

Laal, Suman, Mishra, R. S. and Nath, Indira. Type 1 Reactions in Leprosy—Heterogeneity in T-cell Functions Related to the Background Leprosy Type. 481

Shen, Jen-Yee, Hofman, Florence M., Gunter, Jeffrey R., Mcdlin, Robert L., and Rea, Thomas H. *In Situ* Identification of Activated Ta1+ T Lymphocytes in Human Leprosy Skin Lesions. 494

Bansal, Renu, Kaur, Surrinder, Kumar, Bhushan, Sharma, Vinod K., Katariya, S., Chakravarti, R. N., and Busharnamath, S. R. Venous Involvement in Leprosy: A Venographic and Histopathological Correlation. 499

Zhou Hui-Min, Shi Zhen-Rong, and Job, Charles K. Unusual Histological Lesions in the Eye of a Leprosy Patient. 507

Jayalakshmi, Pailoor, Lai Meng Looi, Kuan Joo Lim, and Rajogopalan, Krishnan. Autopsy Findings in 35 Cases of Leprosy in Malaysia. 510

Chandi, Sushil M. and Chacko, Chinoy J. G. An Ultrastructural Study of Dermal Nerves in Early Human Leprosy. 515

Reprinted Article

Ottenhoff, Tom H. M. and de Vries, Rene R. P. HLA Class II Immune Response and Suppression Genes in Leprosy. 521

Editorial

The Search for Animal Models of Leprosy. (Peter A. S. Johnstone) 535

Correspondence

Cimetidine Inhibits Suppressor Factor Production in Ethiopian Lepromatous Leprosy Patients. (Paul J. Converse, R. M. Mshana, and G. J. Bjune) 548

Dr. Nelson, *et al.*'s Response. (Kenrad E. Nelson, Ward Bullock, Arthur Brown, and David Scollard) 551

Bilateral Ulnar Nerve Abscesses in Lepromatous Leprosy. (Roy E. Pfaltzgraff) 553

Response to Dr. Pfaltzgraff. (Robert H. Gelber and Alan G. Zacharia) 554

Pityriasis Rubra Pilaris with Leprophobia. (R. Pankajam, C. H. D. Vinodkumar, V. Rajendran, K. Ramesh, P. K. Anandadasan, V. N. Bhatia, and P. N. Neelan) 555

Clinical and Histopathologic Findings in Osteoarticular Chronic Hypertrophic Neuritis and Differentiation from Leprosy. (Li Zhiwen, Wang Xichuan, Ma Shuwen, Wang Jun, and He Shoufen) 556

Air Rotor and Clinical Micromotor Induced Sensory Loss. (C. R. Srinivas, C. Balachandran, K. S. Bhat, B. K. Motwani, S. N. Rao, and R. Subramanya) 559

Method for Detecting Sulfones in Urine. (M. M. Jaled, E. I. De Carli, M. H. Fariña, and J. C. Gatti) 560

Investigations into Cultivation of *M. leprae* in a Nasal Mucus Medium: A Preliminary Report. (M. C. Prabhakar) 561

Schwann Cells and *M. leprae*. (S. S. Pandya) 562

Drs. Band and Talwar Reply. (Hamid Band and G. P. Talwar) 563

Microbe Dependence of *Mycobacterium leprae*: A Possible Intracellular Relationship with Protozoa. (John M. Grange, C. Ann Dewar, and Timothy J. Rowbotham) 565

Deficiency in the Biosynthesis of Interleukin 2 (IL-2) and Functional Presence of the IL-2 Receptor in Lepromatous Leprosy. (Alfonso Enrique Islas-Rodriguez, Roberto Morales-Ortiz, Mary Fafutis-Morris, Amado González-Mendoza, and Liberado Ortiz-Ortiz) 566

News and Notes 570

Book Reviews 574

Current Literature 576

Statement of Financial Condition 611

Special Grantors and Sustaining Members 615

CONTENTS

Volume 55, Number 4, December 1987

Original Articles — **Page**

Menzel, Suzanne, Harboe, Morten, Bergsvik, Helén, and Brennan, Patrick J. Antibodies to a Synthetic Analog of Phenolic Glycolipid-I of *Mycobacterium leprae* in Healthy Household Contacts of Patients with Leprosy 617

Chanteau, Suzanne, Cartel, Jean-Louis, Guidi, Claude, Plichart, Régis, and Bach, Marie-Anne. Seroepidemiological Study on 724 Household Contacts of Leprosy Patients in French Polynesia Using Disaccharide-Octyl-BSA as Antigen 626

Miller, Richard A., Gorder, Donna, and Harnisch, James P. Antibodies to Phenolic Glycolipid-I During Long-term Therapy: Serial Measurements in Individual Patients 633

Lyons, Nigel F. and Naafs, Ben. Influence of Environmental Mycobacteria on the Prevalence of Leprosy Clinical Type 637

Rada, Elsa Maria, Convit, Jacinto, Ulrich, Marian, Gallinotto, Maria Eugenia, and Aranzazu, Nacarid. Immunosuppression and Cellular Immunity Reactions in Leprosy Patients Treated with a Mixture of *Mycobacterium leprae* and BCG 646

González-Amaro, Roberto, Baranda, Lourdes, Abud-Mendoza, Carlos, Salazar-González, Jesus F., Moncada, Benjamin, Garcia, Rita, and Alcocer-Varela, Jorge. Quantitative Analysis of Contrasuppressor T Lymphocytes in Leprosy; Induction of la Antigens with Gamma Interferon 651

Chaturvedi, Ramesh M., Chirmule, Narendra B., Yellapurkar, Mukund V., Shaikh, Syed U., and Deo, Madhav G. Effects of ICRC Antileprosy Vaccine in Healthy Subjects 657

Lamba, P. A., Rohatgi, Jolly, and Bose, Swaraj. Factors Influencing Corneal Involvement in Leprosy 667

Guelpa-Lauras, Clair-Cécile, Cartel, Jean-Louis, Constant-Desportes, Monique, Millan, Jacques, Bobin, Pierre, Guidi, Claude, Brucker, Gilles, Flageul, Béatrice, Guillaume, Jean-Claude, Pichet, Christian, Remy, Jean-Charles, and Grosset, Jacques H. Primary and Secondary Dapsone Resistance of *M. leprae* in Martinique, Guadeloupe, New Caledonia, Tahiti, Senegal, and Paris Between 1980 and 1985 672

Datta, Arun K., Katoch, Vishwa M., Katoch, Kiran, Sharma, Vishnu D., and Shivannavar, Channappa T. Appearance of a Methoxy Mycolate-like Component by the Acid Methanolysis of *Mycobacterium leprae* 680

Job, Charles K., Sanchez, Rita M., Hunt, Roena, and Hastings, Robert C. Prevalence and Significance of Positive Mitsuda Reaction in the Nine-banded Armadillo (*Dasypus novemcinctus*) 685

Editorials

Experimental Murine Leprosy and Its Relevance for the Study of Resistance to Mycobacterial Infections in Man. (Martinus Løvik) 689

Etiological Factors in Delayed-type Hypersensitivity Reactions in Leprosy. (Paul Klenerman) 702

Obituaries

Ambrosoli, Fr. Dr. Joseph 713

Büngeler, Walter 714

Correspondence

A Mexican Armadillo (*Dasypus novemcinctus*) Colony for Leprosy Research. (F. Quesada-Pascual, O. Rojas-Espinosa, L. Santos Argumendo, and S. Estrada-Parra) 716

Serological Reactivity and Early Detection of Leprosy Among Contacts of Lepromatous Patients in Cebu, The Philippines. (James T. Douglas, R. V. Celona, R. M. Abalos, M. G. Madarang, and T. Fajardo) 718

Immunodiagnostic Tests for Leprosy; a Need for Standards. (V. D. Ramanathan) 721

Can *Mycobacterium leprae* Enter the Body Through Unbroken Epithelium? (Charles K. Job, Sumir K. Chehl, Gregory T. McCormick, and Robert C. Hastings) 722

Dapsone Susceptibility of *M. leprae* Before and After 1977. (Joel G. Almeida) 726

News and Notes 728

Book Reviews 737

Current Literature 738

U.S.–Japan Cooperative Medical Science Program, Twenty-Second Joint Leprosy Research Conference, Bethesda, Maryland, U.S.A., 1987 767

Reviewers 792

International Leprosy Association Officers and Councillors 793

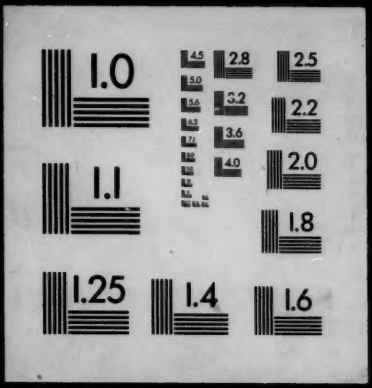
Special Grantors and Sustaining Members 794

Statement of Ownership 795

CONTENTS

Volume 55, Number 4, (Supplement), December 1987

	Page
Preface	799
Dedication to Dr. Charles C. Shepard	800
Workshop Faculty, Participants and Observers	801
Program	803
Infection of the Immunologically Intact Mouse by *Mycobacterium leprae* and Applications to the Experimental Chemotherapy of Leprosy	
Grosset, J. H., Ji Baohong, and Ito, T. The First Joint THELEP-Sasakawa Memorial Health Foundation Workshop on Experimental Chemotherapy of Leprosy	807
Levy, L. Multiplication of *Mycobacterium leprae* in Normal Mice	814
Colston, M. J. and Levy, L. Mouse Breeding and Husbandry	819
Levy, L. Application of the Mouse Foot-Pad Technique in Immunologically Normal Mice in Support of Clinical Drug Trials, and a Review of Earlier Clinical Drug Trials in Lepromatous Leprosy	823
Ji Baohong. Drug Susceptibility Testing of *Mycobacterium leprae*	830
Ji Baohong, Matsuo, Y., and Colston, M. J. Screening of Drugs for Activity Against *Mycobacterium leprae*	836
Levy, L. The Normal Mouse in Experimental Chemotherapy	843
Grosset, J. H. and Guelpa-Lauras, C.-C. Activity of Rifampin in Infections of Normal Mice with *Mycobacterium leprae*	847
Grosset, J. H. Pharmacokinetics in Drug Screening	852
The Thymectomized-irradiated Mouse and the Neonatally Thymectomized Rat in the Experimental Chemotherapy of Leprosy	
Colston, M. J. Application of the Thymectomized-irradiated Mouse to the Detection of Persisting *Mycobacterium leprae*	859
Subcommittee on Clinical Trials of THELEP and SWG of the UNDP/World Bank/WHO Special Programme for Research and Training in Tropical Diseases. The THELEP Controlled Clinical Drug Trials	864
Gelber, R. H. and Levy, L. Detection of Persisting *Mycobacterium leprae* by Inoculation of the Neonatally Thymectomized Rat	872
Gelber, R. H. The Neonatally Thymectomized Rat as a Model of the Lepromatous Patient	879
The Nude Mouse and Other Experimental Animals in the Experimental Chemotherapy of Leprosy	
McDermott-Lancaster, R. D., Ito, T., Kohsaka, K., and Colston, M. J. The Nude Mouse—Characteristics, Breeding and Husbandry	885
McDermott-Lancaster, R. D., Ito, T., Kohsaka, K., Guelpa-Lauras, C.-C., and Grosset, J. H. Multiplication of *Mycobacterium leprae* in the Nude Mouse, and Some Applications of Nude Mice to Experimental Leprosy	889
Colston, M. J. and Levy, L. Infection of Other Experimental Animals with *Mycobacterium leprae*	896
Summary of the Workshop (J. H. Grosset, Ji Baohong, and T. Ito)	899


1.0
1.1
1.25
1.4
1.6
2.8
3.2
3.6
4.0
2.5
2.2
2.0
1.8